



# THE CALIFORNIA VETERINARIAN

## MIDWINTER CONFERENCE

DAVIS

January 30, 31 - February 1  
1961

### Program

All Animal

Large Animal

Regulatory Veterinarians

Industry

10 for Advance Registration

NOVEMBER-DECEMBER, 1960

PUBLISHED BY CALIFORNIA VETERINARY MEDICAL ASSOCIATION



# TEMPACINE™

**CANINE  
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VACCINE  
TISSUE  
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ORIGIN  
MODIFIED  
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TEMPACINE Canine Distemper Vaccine stimulates immunity so rapidly that vaccines can withstand severe challenge in one to three days. TEMPACINE is safe. None of the vaccines used in CS tests showed signs of disease or severe reaction. None of the susceptible dogs or ferrets kept in pen contact with vaccines became diseased or acquired immunity. Dogs vaccinated by practitioners in trials throughout the U.S. developed titers indicating solid immunity as measured by the Cornell canine serological standards.

TEMPACINE, a tissue culture, modified vaccine made from the most antigenic virus strain available, is desiccated for stability. It is now stocked in plastic cartons of 5 single-dose vials (2 cc. each) with diluent at all CS distribution points.

**CORN STATES LABORATORIES, INC.**  
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**SUBSIDIARY OF ELI LILLY AND COMPANY**



## NORDEN VETERINARY NEWS

No. 4

### Cats Stay Peaceful With Norden Vaccine

Veterinarians increasingly report excellent results from the injection of Norden's Feline Distemper Vaccine. The painlessness of the injection plus the effectiveness of the vaccine lead to enthusiastic responses.

Typical comments include, "It's phenol free; cats don't jump to the ceiling," and "Top immunity is the desired end result, and we get it with 2 injections of Norden Feline Distemper Vaccine."

### Norden Now Supplies Iomyycin<sup>1</sup> In Bulk Size

For the general practicing veterinarian, Norden now packages IOMYCIN in 62.5 cc bulk. Restoring the lomyycin with the 45 cc of diluent in the second vial results in a solution-suspension of 62.5 cc volume. The bulk offers savings in price and time when several animals are to be treated.

Other sizes of lomyycin are small animal, 2.5 cc and regular, 12.5 cc, each with sterile diluent.

Although an old standby in many practices, numerous case reports from new users on the effectiveness of IOMYCIN continue to be received. This effectiveness results from the antibiotic's unique ability to provide up to 5 times greater concentration in respiratory and mammary tissues with long-lasting therapeutic levels. Indications include mastitis and respiratory infections including calf pneumonia, shipping fever and feline and canine pulmonary infections.

<sup>1</sup>DihydroxyethylesterpenicillinGlycidide with dihydrostreptomycin

### Vi-Sorbin\* Overcomes Anorexia in Pets

When the problem is to get a small animal patient to eat, practitioners are finding the answer in Vi-Sorbin, new oral appetite and body builder introduced by Norden Laboratories.

Vi-Sorbin features D-Sorbitol, the unique absorption enhancement factor (AEF). D-Sorbitol results in maximum gastrointestinal absorption of Vi-Sorbin's potent formula, which includes Vitamins B<sub>1</sub>, B<sub>6</sub>, folic acid and ferric pyrophosphate. This means fast, positive response in anemia and anorexia. Indications for Vi-Sorbin also include growth failure in young animals, geriatrics, general debility and convalescence.

Vi-Sorbin is available in pints and gallons.

\*Registered trademark of  
Smith Kline and French Laboratories



### Itch-Scratch-Bite Problem Solved by New Temaril\*-P (Tablets)

Small animals — plagued by the "itch-scratch-bite" problem — have found a welcome "friend" in TEMARIL-P, new oral antipruritic — anti-inflammatory therapy for skin disorders. And practitioners are finding that Temaril-P stops itching, even in their toughest cases, as nothing else can.

The dramatic effectiveness of Temaril-P is derived from temaril (tripemazine) with specific antipruritic activity for both mild and severe itching. Temaril blocks the passage of the itch sensation — safely and directly.

Temaril-P also offers the steroid, prednisolone, for relief of inflammation, but it is not the steroid's specific function to stop itching — nor will it best solve the inflammation problem until temaril stops all itching and scratching. With no scratching to impede relief, response to prednisolone is prompt.

Temaril-P is supplied in 100 tablet bottles. For further information write Norden Laboratories, Inc., Lincoln, Nebr.

Typical case comments of the effectiveness of TEMARIL-P in small animals include:

"Dog has acute eczema and moist areas over loin from self mutilization, yet did not attempt to scratch or chew at bandage after 48 hours." —Virginia.

"The relief is dramatic and is continuing. No noticeable side effects." —Florida.

"Owner reports complete remission of symptoms. No recurrence to date." —Ohio.

"Owner feels the cat is completely changed; no pruritus and excellent coat." —California.

"Definitely relieves pruritus." —Minnesota.

"The hair is beginning to grow in, the sheen is returning to the coat. Owners are particularly pleased because this has been a very stubborn case." —Florida.

\*Registered trademark of  
Smith Kline & French Laboratories

### 41-Year Old Policy

Since its beginning 41 years ago, Norden Laboratories has constantly maintained a firm policy of "Sales to Graduate Veterinarians only."

The motto today, just as in 1919, is: "Veterinarians are our business — our only business."



**NEW  
NON-TOXIC  
POLYSACCHARIDE COMPLEXED  
ORAL VITAMIN-IRON**

# **feraplex s.a.**

**NOW, AN EFFECTIVE, PLEASANT TASTING  
ORAL VITAMIN-IRON FOR DOGS, CATS,  
CALVES, FOALS AND OTHER LARGE  
ANIMALS.**

Feraplex S.A. (Small Animal) is truly a non-toxic preparation that has shown no indications of causing constipation, diarrhea, vomiting, staining of teeth (an important factor in show animals) and other common side effects.

With the 50mg. of iron (as polysaccharide-iron complex<sup>®</sup>) per each 10cc, Feraplex S.A. affords higher serum levels in iron deficiency anemia patients.

The components of Vitamin B complex (Vitamins B<sub>1</sub>, B<sub>2</sub>, B<sub>6</sub> and B<sub>12</sub>) aid in proper growth, increased appetite, disease resistance and general over-all conditioning.

**Availability and Dosage:**

Feraplex S.A. is available in 8 ounce and one-gallon containers, with the 8 ounce packaged in attractive plastic bottles in a styrofoam display of one dozen.

Feraplex, administered orally, for dogs, 1 to 3 teaspoonfuls once daily; Cats, 1/2 to 1 teaspoonful daily; Calves and foals, 1 to 2 tablespoonfuls daily; large animals, 2 oz. to 5 oz. daily. May be conveniently mixed with rations if desired.

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*\*Columbia Wax Company*

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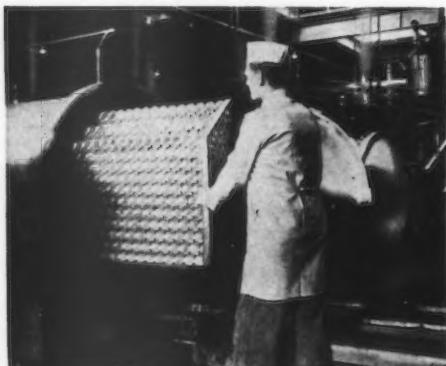
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**For Loss of Both Hands, or Both  
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\$80.80	\$109.55	\$134.90	\$91.50	\$120.25	\$145.60	\$107.50	\$136.25	\$161.60

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# MIDWINTER CONFERENCE EVENTS

Sessions: School of Veterinary Medicine, Davis

Official Headquarters: Sacramento Inn, 1401 Arden Way at Freeway, Sacramento

Sunday, January 29, 10 A.M.  
House of Delegates, Sacramento Inn

Monday, January 30  
ALUMNI DINNER and DANCE, Sacramento Inn

## MONDAY, TUESDAY and WEDNESDAY

January 30, 31 and February 1  
Small and Large Animal Sessions, School of Veterinary Medicine, Davis  
Closed Circuit TV, Wednesday, February 1 — Starts 10:30 A.M.

Also

## REGULATORY VETERINARIANS' PROGRAM

Monday, January 30 — 9:15 to 12 noon

School of Veterinary Medicine, Davis  
At this meeting the CVMA inaugurates a special  
program for all Regulatory Veterinarians.

## WESTERN POULTRY DISEASE CONFERENCE

Wednesday, February 1 — 9:00 A.M.  
University of California at Davis



# ADVANCE REGISTRATION

## *Midwinter Conference, Davis,*

### **Jan. 30, 31 and Feb. 1, 1961**

To avoid delay at Registration Desk, please make Advance Registration Now!

Receipt, Badge and Banquet Tickets will be awaiting you upon arrival.

(Refund will be made if you pre-register and are unable to attend)

Send Check to CVMA, 3004-16th St., San Francisco

CVMA Member Registration — \$7.50

Non-Member — \$15.00

Alumni Dinner Tickets \$7.00 Each

Please Tear Here and Return

I enclose check for Advance Registration, CVMA Member \$7.50; Non-Member \$15.00.

Also included \$7.00 each for Alumni Dinner and Dance at the Sacramento Inn, Monday, January 30, 1961.

(This will aid us in determining number of reservations to make.)

Name \_\_\_\_\_ Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

# THE CALIFORNIA VETERINARIAN

## NOVEMBER-DECEMBER, 1960

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In addition to members of the CVMA, the following states also receive  
**THE CALIFORNIA VETERINARIAN:** Arizona, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Hawaii.

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### Volume 14

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*Intravenous antistress therapy for large animals*

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Provides immediately available energy plus adrenal cortical stimulation for prompt and dramatic relief for large animals under critical stress conditions.

Traumatic and surgical shock   Febrile toxemias

Primary ketosis   Dehydration

Pre- and postoperative support   Cachexia

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### ADRENOMONE®

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Stimulates the entire adrenal cortex thus may be used without danger of atrophy when prolonged therapy is desired.

Specific for ketosis

Quick response in arthritis, laminitis, dermatoses  
and neuromuscular diseases of horses

Primary drug for allergic conditions,  
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Available in two strengths: 5 cc. vials; each cc. contains 40 U.S.P. Units (I.U.) or 80 U.S.P. Units (I.U.). 10 cc. vials; each cc. contains 80 U.S.P. Units (I.U.).

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*Intramuscular corticosteroid-antibiotic therapy  
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Suspension of 30 U.S.P. units of ACTH with 300,000 units of penicillin in oil.

Combines powerful anti-inflammatory, anti-allergic and anti-stress activity with potent anti-infective action for maximum clinical improvement in the shortest possible time.

Corrects unbalanced metabolism in ketosis

Combats shock and stress

Indicated in shipping fever and pneumonia complications

Valuable in resolving diseases of idiopathic origin

Supplied in 10 cc. sterile vials.



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VETERINARY DEPARTMENT

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# Midwinter Conference Speakers



J. E. MOSIER

Dr. Mosier received his degree from Kansas State University in 1945. He taught in both the anatomy and surgery-medicine departments of the University for two years. Later he was associated with the large animal clinic. He spent a year in large animal surgery at the University of Illinois. Since 1950 he has been with the School of Veterinary Medicine, Kansas State University. He became a professor in 1954, when he entered the small animal clinic exclusively.



JAMES H. GILLESPIE

Dr. Gillespie is a graduate of the University of Pennsylvania, 1939. Currently he is a professor at Cornell. He has published more than 25 research papers on virus diseases of animals.



DOUGLAS C. BLOOD

Dr. Blood graduated from the Faculty of Veterinary Science, University of Sydney, Australia, in 1942. He joined the Faculty as lecturer in medicine in 1945, after service with the Australian army. He spent a year at Cornell in 1950 receiving post-graduate clinical training. He joined Ontario Veterinary College in 1957 and lectures in medicine. Dr. Blood was a recent co-author of "Veterinary Medicine," a text book primarily for veterinary students, but also of value to veterinary surgeons.



WILLIAM V. LUMB

Dr. Lumb received his degree from Michigan State University in 1957. He is presently associate professor, Dept. of Veterinary Medicine, Colorado State University.



## Closed Circuit TV to be Sponsored by PITMAN-MOORE COMPANY

*Division of Allied Laboratories, Indianapolis*

For the fifth consecutive year, Pitman-Moore Company will sponsor closed circuit Television at the Midwinter Conference.

An excellent program of large and small animal demonstrations is planned with Drs. Edward A. Rhode, Jr., and J. W. Kendrick as Moderators.

The use of the large screen will again bring operating techniques directly before you. Don't miss the closed circuit portion of the Midwinter meeting!

# PROGRAM

## CALIFORNIA VETERINARY MEDICAL ASSOCIATION MIDWINTER CONFERENCE

PROGRAM CHAIRMAN — Edward A. Rhode, Jr.

COMMITTEE — Donald E. Jasper, J. W. Kendrick, P. C. Enge, Ghery D. Pettit

JANUARY 30, 31, FEBRUARY 1, 1961,  
SCHOOL OF VETERINARY MEDICINE, DAVIS

MONDAY, JANUARY 30, 1961

### GENERAL SESSION

#### Morning

- 8:30-4:00—CVMA Registration, Haring Hall.  
9:30—WORKSHOPS—Demonstrations to be repeated so that groups may participate in discussion and examination more actively. The Workshops are to be given by members of the staff at the School of Veterinary Medicine. The subjects include:  
1. Laboratory examinations and techniques used in bovine semen evaluation, mastitis, parasitology and clinical pathology.  
2. Demonstration of equipment useful in small animal surgery.  
3. Demonstration of a Necropsy in a cow, with discussion concerning the collection and shipment of specimens for laboratory diagnosis.

#### Afternoon

##### Auditorium

Chairman, W. W. PUTNEY

- 1:30—Invocation, David Burnight.  
1:35—Welcome from the Davis Campus, Emil M. Mrak, Chancellor, University of California at Davis.  
1:40—Welcome from the School of Veterinary Medicine, Dean Donald E. Jasper, University of California at Davis.  
1:45—Response, E. R. Braun, President, CVMA.  
1:50—Electrocardiography in Veterinary Medicine, David K. Detweiler.  
2:25—Agricultural Extension Service and the Practicing Veterinarian, George B. Alcorn.  
2:45—The Interpretations of Radiographs and Comparable Conditions in Animals and Man, Theodore J. Hage, Charles Ripple.  
3:40—Education in the Veterinary Clinic, J. W. Kendrick.  
4:00—Legislature Trends of Importance to Veterinarians, Walter W. Stern.

• • •

TUESDAY, JANUARY 31, 1961

### SMALL ANIMAL SECTION

#### Auditorium

#### Morning

Chairman, W. E. STEINMETZ

- 8:30—Film—Cardiac Catheterization in the Dog, David K. Detweiler.  
8:50—Heart Disease in the Dog, David K. Detweiler.  
9:35—Cardiac Emergencies in Surgery, Gerald L. Crenshaw.  
9:55—Discussion.  
10:15—Coffee Break.  
10:30—Thoracic Surgery in Small Animals, William V. Lumb.  
11:10—Intervertebral Disc Protrusion: The Selection of Cases for Surgery, Ghery D. Pettit.  
11:30—Dermatological Problems in the Dog, J. E. Mosier.

#### Afternoon

Chairman, W. E. RUSHWORTH

- 1:30—Congenital Hip Dysplasia: Clinical Aspects, Ghery D. Pettit; Radiologic Interpretation, Theodore J. Hage. Discussion.  
2:30—Can You Defend Your Fee Schedule? Fred P. Sattler.  
3:00—Tracheitis and Associated Syndromes in the Dog, J. E. Mosier.  
3:30—Coffee Break.  
3:45—Practical Aspects of Pet Bird Practice, Robert W. Wichmann.  
4:05—Canine Haemobartonellosis and Its Feline Counterpart, William V. Lumb.

• • •

TUESDAY, JANUARY 31, 1961

### LARGE ANIMAL SECTION

Room 101, Horticulture Building

#### Morning

Chairman, GEORGE L. CRENSHAW

- 8:30—Calf Nurseries, Charles H. Ozanian.  
8:50—New Concepts Concerning Urolithiasis in Ruminants, Charles E. Cornelius.  
9:10—Organic Phosphate Parasiticides, N. F. Baker.  
9:30—Feed Selection for Fattening Cattle, Jack Algio.  
9:50—Feedlot Veterinary Management, Richard E. Hoadeley.  
10:10—Coffee Break.  
10:20—Feedlot Disease, Differential Diagnosis and Treatment, R. E. Pierson.  
11:00—Discussion.  
11:15—Diseases of the Nervous System of Calves, Douglas C. Blood.

• • •

#### Afternoon

Chairman, GEORGE B. COLLINS

- 1:30—Equine Surgery Techniques, J. D. Wheat.  
2:10—Examination of the Equine Heart, David K. Detweiler.  
2:30—Specific Pathogen-Free Pigs, P. C. Enge.  
2:55—Discussion.  
3:10—Coffee Break.  
3:20—Large Animal Practice Topics, Douglas C. Blood.  
4:05—Epizootic Bovine Abortion, J. A. Howarth.

• • •

WEDNESDAY, FEBRUARY 1, 1961

### GENERAL SESSION

#### Auditorium

#### Morning

Chairman, ROBERT J. HARRIS

- 8:45—Drug, Pesticide and Other Residues in Food and Milk, S. A. Peoples.  
9:15—Recent Developments in Cattle and Sheep Scabies, H. G. Wixom.  
9:45—New Developments in Certain Virus Diseases, James H. Gillespie.  
10:30—Closed Circuit TV.

#### Afternoon

1:30—Closed Circuit TV.

## **Conference Speakers**

- Alcorn, George B., Ph.D., Director, Agricultural Extension Service, Berkeley.
- Algio, Jack, Ph.D., Consultant Nutritionist for Feedlots in California.
- Baker, N. F., D.V.M., Ph.D., Dept. of Microbiology, University of California, Davis.
- Blood, Douglas C., B.V. Sc., Dept. of Medicine & Surgery, Ontario Veterinary College, Guelph, Canada.
- Cornelius, Charles E., D.V.M., Ph.D., Assistant Professor of Veterinary Medicine, University of California, Davis.
- Crenshaw, Gerald L., M.D., Consultant U. S. Naval Hospital and School of Veterinary Medicine, Davis.
- Detweiler, David K., V.M.D., Director, Comparative Cardiovascular Studies Unit, University of Pennsylvania, Philadelphia.
- Enge, P. C., D.V.M., Extension Veterinarian, University of California, Davis.
- Gillespie, James H., V.M.D., Ph.D., New York State Veterinary College, Cornell University, Ithaca, N. Y.
- Hage, Theodore J., D.V.M., Associate Professor of Veterinary Medicine, University of California, Davis.
- Hoadley, Richard E., D.V.M., Specialist in Feedlot Practice, Indio.
- Howarth, J. A., D.V.M., Ph.D., Associate Professor of Veterinary Medicine, University of California, Davis.
- Kendrick, J. W., D.V.M., Ph.D., Chairman, Dept. of Medicine, Surgery and Clinics, University of California, Davis.
- Larsen, Aubrey B., D.V.M., M.S., Regional Animal Disease Research Lab., A.R.S., U.S.D.A., Auburn, Alabama.
- Lumb, William V., D.V.M., Ph.D., Associate Professor, Dept. of Veterinary Medicine, Colorado State University, Fort Collins, Colo.
- S. H. Madin, D.V.M., Virus Research Laboratory, University of California, Berkeley.
- C. K. Mingle, D.V.M., Chief Staff Officer, Brucellosis Eradication Sect., ADED., ARS., USDA., Washington, D. C.
- Mosier, J. E., D.V.M., Dept. of Surgery and Medicine, Kansas State University, Manhattan, Kansas.
- Ozanian, Charles H., D.V.M., Practitioner, Bellflower.
- Peoples, S. A., M.D., Professor of Comparative Pharmacology, School of Veterinary Medicine, Davis.
- Pettit, Ghery D., D.V.M., Assistant Professor of Veterinary Medicine, University of California, Davis.
- Pierson, R. E., D.V.M., Associate Professor, Dept. of Veterinary Clinics and Surgery, Colorado State University, Fort Collins, Colo.
- Ranney, A. F., D.V.M., Chief Staff Officer, Tuberculosis Eradication Sect., ADED., ARS., U.S.D.A., Washington, D.C.
- Richards, Burwyn, D.V.M., Practitioner, Santa Rosa.
- Reed, J. H., D.V.M., Assistant Professor, Ontario Veterinary College, Guelph, Canada.
- Ripple, Charles, M.D., Ph.D., Radiologist, Radiologist Associates, Sacramento.
- Sattler, Fred P., D.V.M., Practitioner, Fullerton.
- Steere, James, D.V.M., Livestock Practice Editor, Modern Veterinary Practice, Santa Barbara.
- Stiern, Walter W., D.V.M., Practitioner, Bakersfield.
- Wheat, J. D., D.V.M., Professor of Veterinary Medicine, University of California, Davis.
- Wichmann, Robert W., D.V.M., Poultry Health Laboratories, Davis.
- Wixom, H. G., D.V.M., Chief, Bureau of Livestock Disease Control, State of California, Sacramento.
- Woolsey, John H., D.V.M., Practitioner, Santa Rosa.

### **Tenth Annual WESTERN POULTRY DISEASE CONFERENCE**

**University of California at Davis**

**February 1, 1961**

- Chairman: A. S. ROSENWALD Secretary: D. V. ZANDER*
- 9:00—Research on Poultry Meat Inspection, Walter Sadler.
- 9:20—Diagnosis of Ornithosis, E. M. Dickinson.
- 9:40—Discussion.
- 9:50—Infectious Synovitis, R. R. Chalquest.
- 10:20—Discussion.
- 10:30—Recess.
- 10:40—Experiences with Crop Mycosis (Candidiasis), Bryan Mayeda.
- 10:55—Enteritis Caused by *Escherichia coli*, Owen Thompson.
- 11:10—Discussion.
- 11:20—Research on Poultry Tumor Viruses, Harry Rubin.
- 12:00—Discussion.
- 12:15—Luncheon and Business Meeting.

- 1:45—Factors Affecting *Hemophilus gallinarum* Infection, Leslie A. Page, Dave Clark, L. B. Tennison.
- 2:35—Discussion.
- 2:45—Salmonella and Arizona Paracolon Infections, D. E. Stover, Martin Goetz.
- 3:10—Salmonellas in Feedstuffs, Lee C. Grumbles.
- 3:30—Discussion. H. E. Adler, Leader.
- 3:45—Recess.
- 3:55—Avian Encephalomyelitis Problems and Control, J. R. E. Taylor.
- 4:15—Discussion. L. G. Raggi, Leader.
- 4:30—Clarification on New Problems—Turkeys and Chickens, Glenn Snoeyenbos\*, Robert Conrad, Walter Hughes.
- 5:15—Adjournment.

*Attendance at these meetings is limited to veterinarians, veterinary students, qualified publicly employed personnel or special guests.*

\*Tentative.

## **Regulatory Veterinarians' Program**

**Monday, January 30, 1961**  
**Auditorium, Haring Hall**

Dr. J. E. Stuart, Chief, Division of Animal Industry, California Department of Agriculture, in cooperating with Dr. E. A. Rhode, Jr., Midwinter Conference Chairman, has arranged the following program of interest to all Regulatory Veterinarians:

- 9:15—Tissue Culture as a Diagnostic Tool, S. H. Madin and James H. Gillespie.
- 10:00—Brucellosis Problems in Herds, C. K. Mingle.
- 10:40—Coffee Break.
- 11:00—Diagnosis and Control of Johne's Disease, Aubrey B. Larsen.
- 11:30—International Tuberculosis Situation, A. F. Ranney.

## Speakers, Poultry Conference

FEBRUARY 1, 1961

- Adler, H. E., D.V.M., B.S., Ph.D., School of Veterinary Medicine, University of California, Davis.  
Chalquest, R. R., D.V.M., Ph.D., Washington State University, Pullman.  
Clark, Dave, D.V.M., Demler Farms, Anaheim.  
Conrad, Robert, D.V.M., Ph.D., Heisendorf & Nelson, Inc., Redmond, Wash.  
Dickinson, E. M., D.V.M., M.S., Oregon State College, Corvallis, Ore.  
Goetz, Martin, D.V.M., San Diego County Livestock Dept., San Diego.  
Grumbles, Lee C., D.V.M., M.S., Texas A. & M., College Station, Texas.  
Hughes, Walter, D.V.M., Kimber Farms, Inc., Niles.  
Mayeda, Bryan, D.V.M., California State Dept. of Agriculture, Sacramento.  
Page, Leslie A., Ph.D., University of California, Davis.  
Raggi, L. G., D.V.M., Ph.D., University of California, Davis.  
Rosenwald, A.S., D.V.M., Ph.D., Extension Poultry Pathologist, University of California, Davis.  
Rubin, Harry, D.V.M., Virus Laboratory, University of California, Berkeley.  
Sadler, Walter, D.V.M., Ph.D., University of California, Davis.  
\*Snoeyenbos, Glenn, D.V.M., University of Massachusetts, Amherst, Mass.  
Stover, D. E., D.V.M., Division of Animal Industry, California State Dept. of Agriculture, Sacramento.  
Taylor, J.R.E., D.V.M., M.S., DeKalb Agricultural Assn., DeKalb, Ill.  
Tennison, L. B., D.V.M., Heisendorf & Nelson, Inc., Riverside.  
Thompson, Owen, D.V.M., Salsbury Laboratories, Charles City, Ia.  
Zander, D. V., D.V.M., Ph.D., Heisendorf & Nelson, Inc., Redmond, Wash.

\*Tentative.

### Closed Circuit Television Program

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Indianapolis

Moderators: EDWARD A. RHODE, JR., and  
J. W. KENDRICK

#### Wednesday, 10:30 — Recess — 1:30

Short Duration Bovine Anesthesia, Burwyn Richards and John Woolsey.

The Minchev Method for Correcting Vaginal Prolapse in the Bovine, R. E. Pierson.

Teat Surgery, James Steere.

Radiography in Canine Hip Dysplasia: Positioning and Technique, Theodore J. Hage. Intervertebral Disc Protrusion; the Fenestration Operation, Ghery Pettit.

Esophagomyotomy, the Heller Operation for Achalasia of the Esophagus, J. H. Reed.

Demonstration of Treatment of Cardiac Emergency, Gerald L. Crenshaw.

## H. C. Burns Co.'s Sixth Annual Symposium and Luncheon

H. C. Burns Company, Inc., will hold their Sixth Annual Symposium and Luncheon at the Sacramento Inn on Sunday, January 29, 1961, at 12:30 p.m.

Dr. C. J. Ferreira will moderate this year's symposium on "The Veterinarian's Role in the New Swine Program."

Each of the following will discuss "The Veterinarian's Responsibilities to the Swine Industry" from their viewpoint: Dr. C. J. Ferreira, practicing veterinarian; Dr. P. C. Enge, extension veterinarian; Mr. Art Adrin, president of California Farm Bureau Swine Section, swine producer; Dr. Blaine McGowan, professor, University of California.

Under the direction of Dr. P. C. Enge, Swine Extension Service, University of California, and in cooperation with leading swine producers and veterinarians, a revolutionary program is now under way.

It is anticipated that this new program will stimulate a very large increase in western swine production with corresponding opportunities for the veterinary profession to serve this heretofore neglected practice.

The swine industry is moving West—it is hoped that this symposium will prepare the practitioner for this new opportunity to serve and profit.

THOSE WHO PLAN TO ATTEND WILL PLEASE ADVISE OUR REPRESENTATIVES.

### Trans-Atlantic Cable to Join Veterinarians of U.S. and England

For the first time in the history of veterinary medicine, veterinarians in the United States and England will be joined by Trans-Atlantic cable for the purpose of postgraduate education, Dr. Wayne H. Riser, President of the American Animal Hospital Association, announced.

The Trans-Atlantic link, to be held next April, is being arranged by Norden Laboratories, Inc. of Lincoln, Neb., and Smith, Kline & French Laboratories, Philadelphia pharmaceutical firm, in cooperation with the AAHA. It will bring together annual meetings of the AAHA in St. Louis, Mo., and the British Small Animal Veterinary Association in London.

## Women's Auxiliary Midwinter Luncheon

Dr. Everett Carter, Vice Chancellor of the University of California at Davis and scholar in American literature, will be the guest speaker for the ladies' midwinter luncheon to be held on January 31, 1961, in Hughes Hall on the Davis campus.

Widely acclaimed for his fascinating lectures, Dr. Carter speaks in a way which engages the interests of and captivates entire audiences no matter how varied their individual interests may be.

Each semester finds a number of Davis housewives auditing his courses—not for credit but for the enjoyment of hearing him lecture.

Though born in New York City and graduated from high school there, he received his bachelor of arts, master of arts, and doctor of philosophy degrees from the University of California at Los Angeles. In the field of letters, Dr. Carter's best-known work is his "Howells and the Age of Realism," a book that won the Commonwealth Gold Medal in 1954. Most of it was written in Switzerland, where Carter spent 1952-53 as a Guggenheim Fellow.

He was also a visiting lecturer at the Salzburg Seminar in American Studies in Austria in 1953. During 1954-55 he was a visiting professor of American civilization at the University of Copenhagen under a Fulbright Grant. As a Fulbright lecturer he spent the summer of 1958 in France at the Nice Seminar in American Studies, and during the school year of 1957-58 he was on leave from Davis as a visiting lecturer at Harvard. A new edition of Harold Frederic's novel, "The Damnation of Theron Ware," edited by Dr. Carter, was published in October of this year by the Harvard University Press.

Preceding the luncheon, which will start promptly at 12:30, all ladies are cordially invited to drop in any time after 11:30 for fruit juice or sherry at the home of Mrs. P. C. Enge, 658 Elmwood Drive.

MRS. D. E. JASPER,  
Chairman, Women's Activities,  
Midwinter Conference



EVERETT CARTER

## Women's Auxiliary News

"Happy days are here again . . ." depending on your point of view. Now that we have the anticipation, participation and post-mortems of this great election behind us, and the challenge of the sixties ahead, let us pause in this interim and devote our energies to the projects at hand.

Speaking of elections, the San Diego County Auxiliary has elected the following officers for 1960-61: Mrs. Griffith T. Clark, president; Mrs. Harlan Jensen, vice-president, and Mrs. Ted G. Garten, secretary-treasurer. Their meetings are held the same night as the County Association, dinner together, business meetings separate. They are presenting the Welfare Department of San Diego with a two hundred dollar donation to be used for a special fund in connection with handicapped children. They are also continuing a small monthly financial aid program for a local elderly veterinarian and his wife. Plans are taking shape for the semi-formal dance scheduled for February, Mrs. Garten reports. We shall hear more of this later.

Winging her way inland, our state president, Mrs. Russell P. Cope, guided her silver-and-red bird to a perfect landing at the Fresno Air Terminal. Stepping from this winged conveyance in chic attire she was greeted by Mrs. Wilfred Pimentel and Mrs. Paul Chaffee of the local auxiliary. They whisked her away to a special luncheon, complete with a surprise birthday cake. The members and guests were enchanted with her method of arrival (by plane) and listened attentively to her message of help for the AVMA Research Fund and the Veterinary Educational Assistance Program at Davis. Local auxiliaries can and should design projects aimed at stimulating more active participation in providing continuing support to these much sought after and desperately needed funds. The hostesses, Mmes. Ben Ray, Otto Suda and Leonard Witoscosky, provided a warm, friendly background and those attending were delighted and pleased at meeting this sincere, hard-working, high-flying personality. So as she came, so did she leave but not without making us feel that "we belonged."

The Women's Auxiliary to the Southern California VMA held their fourth annual Silver Collar Luncheon on October 20, in the beautiful Crystal Room of the Beverly Hills Hotel. Mrs. Orville Warner, general chairman, arranged a delightful fashion show and as a special added attraction presented Mr. Rex Allen, stage, screen and television star, who flew in from an appearance deep in the heart of Texas to provide excellent entertainment. The proceeds from this affair will go to Guide Dogs for the Blind, Inc. at San Rafael, California. In the past, this auxiliary has donated three guide dog units for sightless

(Continued on page 20)

Please Use  
**ADVANCE REGISTRATION FORM**  
Midwinter Conference—page 10

# FROM MERCK...A NEW LEPTO REDUCES ANAPHYLACTOID REACTIONS



# NEW ANTILEPTO

**Today's only  
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essentially free  
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Until today, every whole culture bacterin available for leptospirosis immunization has contained as much as 10% rabbit serum—an ingredient which has been proved responsible for an increasing number of anaphylactoid reactions in vaccinated animals.

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# ANTILEPTO

an anaphylactoid test in guinea pigs before it is released. Result: NEW ANTILEPTO comes to you with the highest degree of safety yet developed in a leptospirosis vaccine.

Available in 20 cc. (10-dose) and 100 cc. (50-dose) vials, NEW ANTILEPTO produces active immunity in cattle, swine, sheep and horses that generally lasts 12 months. The bacterin can be injected without risk of inducing the disease because the culture is killed. Recommended dose is *only* 2 cc. subcutaneously—although it may also be administered intramuscularly in swine.

Leptospirosis is the third most costly disease in this country—responsible for annual losses estimated at \$112,000,000. To help assure your clients prevention and control of greatest effectiveness and safety, stock and use NEW ANTILEPTO—the *only* leptospirosis vaccine today essentially free of rabbit serum. Merck Chemical Division, Merck & Co., Inc., Rahway, New Jersey.

**ANTILEPTO®**  
(*Leptospira Pomona Bacterin*)  
VETERINARY



## Women's Auxiliary News

(Continued from page 17)

persons in southern California at a cost of \$1,700 per unit.

Mrs. Arodd W. Clark, publicity chairman, also relates that the last business meeting of the year was held November 16 in the Ambassador Hotel. A program on holiday floral arrangements was presented by Mrs. Benstead and the election of officers for the coming year was also on the agenda. Members are busy planning decorations for the Southern California VMA's installation ball to be held January 7, 1961, in the Venetian Room of the Ambassador Hotel.

Traveling northward, the San Fernando Valley Chapter of the Women's Auxiliary to the SCVMA held an election of officers at its October meeting. Mrs. Frederick Bowers, president; Mrs. S. M. Childs, first vice-president; Mrs. Ralph Reese, second vice-president; Mrs. Robert Button, secretary; Mrs. Anthony Feldman, treasurer, and Mrs. Philip Olson, councilor.

The Auxiliary is planning its annual Christmas Party to be held the first part of December at the home of Mrs. Philip Olson with Mrs. Bradley Crundwell as chairman of the event.

The new and returning student wives at Davis were encouraged by President Betsy Cockcroft to identify our student chapter with both our state and national auxiliaries. At the first fall meeting Mrs. Russell Cope, President of the State Auxiliary, gave an introductory talk. The focus of the second meeting was national as the enthusiastic delegates (Mrs. Donna Hermanson and Mrs. Pat Hitchman) to the 1960 AVMA convention gave the highlights of their trip and showed slides of the exhibits and activities in Denver. The chapter was most appreciative of the support of the State Auxiliary in sending our delegates; this is the first time we have sent two representatives to a convention.

Fall activities have been many and varied. In September the executive board gave a tea for new wives at the home of Mrs. T. J. Hage, faculty advisor. Some 30 new wives were present and were welcomed by their student sponsors and by the officers.

The annual fall mixer dance was held October 14 and featured a circus theme. Students and wives and faculty couples got into the carnival spirit by wearing zany costumes to the dance.

Also in October the faculty wives held a coffee party honoring the student wives of all four classes. The get-acquainted party was held at the home of Mrs. Arnold Rosenwald.

Several fund-raising projects are planned for the coming months but the one most keenly anticipated by the chapter was the Bazaar Auction held on December 6. The auction was open to the public and refreshments were served throughout the evening. Items

to bid for included homemade baked goods, sewing items, Christmas decorations, and next-to-new goods. The highlight of the evening was the door prize award—a doll with a fabulous and extensive wardrobe made by the members.

The last social event before the holidays was the Christmas Formal Dance, December 9. It was at the Yolo Flier's Club, Woodland, and featured an appearance by Santa Claus, numerous door prizes from the drug and veterinary supply companies and a midnight buffet breakfast.

At the September meeting of the Alameda-Contra Costa Veterinary Medical Auxiliary, members heard our State President, Mrs. Russell Cope, give an account of the National Meeting held in Denver in August. Also on the agenda for the day was the election of officers for the ensuing two-year term. Assisting the hostess, Mrs. Guy Railsback, at whose home the luncheon meeting was held, were out-going president, Mrs. J. N. Christensen, and Mrs. L. M. Proctor, both of Concord.

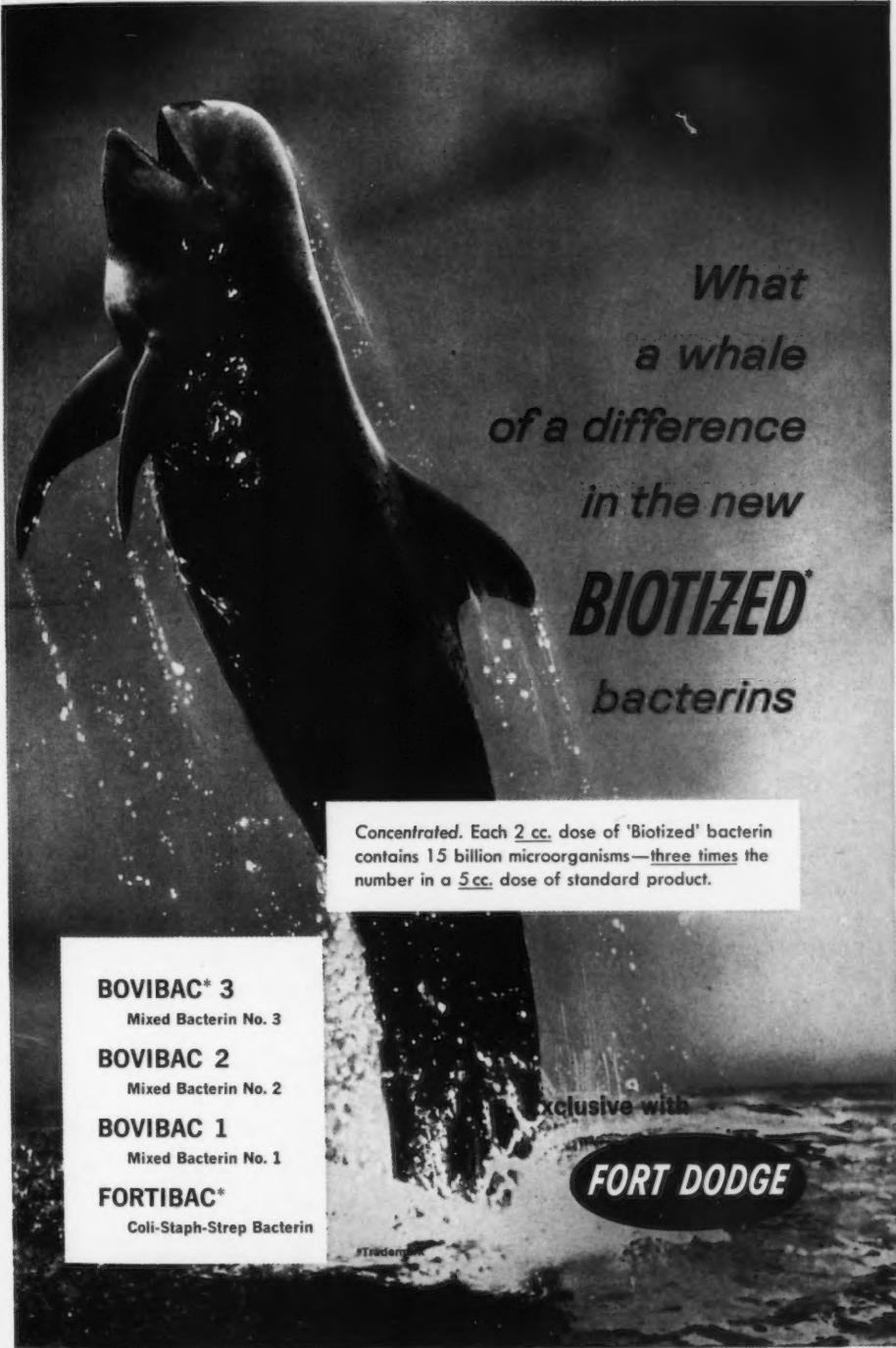
### Women's Auxiliary—Student Chapter

The Women's Auxiliary to the Student Chapter of the AVMA at Davis is making arrangements for wives and families of delegates to the Midwinter Conference to tour campus sites of interest during their visit. Plans call for inspection of the new student residence halls and other recently-constructed buildings. Mrs. Ruepert Cederwall, in charge of arrangements for this event, says that the tours will start after the general luncheon in Hughes Hall on the Davis campus, January 31.

Among other things . . .  
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**DOSAGE AND ECONOMY:** Recommended treatment levels with new SULFABROM SOLUTION are 25-50 cc. per 100 lb. of body weight when injected intravenously and 50 cc. per 100 lb. of body weight when injected intraperitoneally. Cost of treatment per animal is remarkably low—only about 50c to \$1.

**RESULTS:** The following remarks are abstracted from actual clinical investigation reports on the use of SULFABROM SOLUTION on file at the Merck Animal Science Research Department. (1) "Symptoms: Recently shipped-in cow. Temperature 106°. Labored breathing. Rales audible over chest area. Diagnosis: Pneumonia (shipping fever complex). Treatment: 700 cc. SULFABROM SOLUTION in one dose daily for two days. Sixty grams of

SULFABROM BOLUSES given at time of I. V. injection. Results: Temperature returned to normal in 24 hours". (2) "Symptoms: Dystocia with removal by forced extraction of putrified fetus. Temperature 104°. Rapid pulse and breathing. Anorexia. Diagnosis: Metritis. Treatment: Two doses SULFABROM SOLUTION 700 cc. each. Results: Temperature 101.6° in 24 hours. Appetite returning". (3) "Symptoms: Foul hoof—limited to 'between the toes' variety with swelling. Diagnosis: Foot rot. Treatment: 700 cc. SULFABROM SOLUTION Results: Eight of 11 animals walked normally in 48 hours with swelling reduced to normal or near normal. Three animals required second treatment and returned to normal in 48 hours."

These quoted reports are typical of those being received from clinical investigators and from veterinarians like yourself. We believe they demonstrate that the only sulfas available to you exclusively—new SULFABROM SOLUTION and SULFABROM BOLUSES—are also the most effective you can use.

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BOLUSES

VETERINARY



## Laboratory Notes

From the Department of Clinical Pathology, School of Veterinary Medicine, Davis, California

### Pancreatic Disease

Pancreatic Disease in the dog can be easily misdiagnosed and confused with other disease entities. Without the production of the proteolytic enzymes of the pancreas, hepatic lipidosis will occur and for this reason the pancreas has long been known as the "guardian of the liver." This results from a deficiency of methionine, which donates methyl groups for the formation of cytidine diphosphocholine, a necessary constituent for fat mobilization.

The pancreas in mammals contains two unrelated organs within the same stroma. In some fish species, the endocrine (insulin, glucagon, elastase) and the exocrine or acinar (trypsin, amylase, lipase, etc.) are separate organs. The majority of the pancreatic diseases in the dog are acute necrotic pancreatitis and chronic pancreatitis, with a lesser number of cases of acinar atrophy or fibrosis.<sup>1</sup>

Fibrosis may involve the acinar and/or islets of Langerhans. The presence or absence of diabetes mellitus as a result of islet involvement can be ascertained with the use of rapid qualitative urine tests. (Acetest<sup>\*</sup> for ketonuria and Tes-Tape<sup>†</sup> for glycosuria.)

### Chronic Pancreatic Fibrosis or Atrophy

Dogs recovering from subacute pancreatitis may ultimately have fibrosis of the exocrine portion of the gland and secrete little or no proteolytic enzymes into the intestine. The absence of trypsin in the stool is best determined initially by Jasper's<sup>2</sup> modification of the Gates<sup>3</sup> procedure in which 1 part of stool + 9 parts of a 5% Na HCO<sub>3</sub> is incubated at 37° C for one hour on X-ray film. Digestion of the film emulsion indicates a normal exocrine pancreas. Since 25% of the X-ray film tests are false negatives, the further incubation of 1 cc of the suspected fecal solution with 2 cc of 7.5% gelatin solution and 1 cc of 5% Na HCO<sub>3</sub>, will confirm the absence or presence of fecal proteolytic activity.

### Pancreatitis

Dogs presented for examination with acute abdominal symptoms and with varying degrees of shock may be difficult to diagnose. Death in acute necrotic pancreatitis may be attributable to hypocalcemia from the binding of calcium to the masses of liberated fatty acids in the peri-pancreatic mesentery. Hypoglycemia and hypocalcemia may both occur in early phases of acute pancreatitis in man.

Due to the extreme elevations in serum amylase values in dogs following ACTH and hyperactivity of the adrenal cortex, Challis

\*Ames Company, Elkhart, Indiana.

†Eli Lilly and Company, Indianapolis, Ind.

‡Sigma Chemical Company, 3500 Dekalb Street, St. Louis 18, Missouri, Bulletin No. 800, Oct. 1958.

et al.<sup>4</sup> suggested that elevations of serum and urinary amylase in pancreatitis might be more correctly attributed to a non-specific stress reaction. Since the interpretation of serum amylase levels in dogs is at present not clear, we have found the new commercially available and inexpensive serum lipase kit<sup>‡</sup> to be the test of choice in canine necrotic pancreatitis for the veterinary practitioner. Previous methods assessing the lipase activity have been unreliable due to either the varying particle sizes of substrates of the olive oil emulsion or due to the action of esterases in addition to lipase on synthetic substrates. The new rapid kit requires a minimum 3-hour incubation time and appears to have good reproducibility and stability. The principal of the test is simply the hydrolysis of a fat substrate by serum lipase to fatty acids and glycerol, and the subsequent rapid titration of fatty acids with a standard NaOH solution. The veterinary practitioner can easily perform this test in his hospital without elaborate equipment. Values up to 1.0 Sigma-Tietz Unit per ml. of serum have been found to be normal for dogs in our laboratory. Elevations will be found in both chronic and acute pancreatitis but not in fibrotic or atrophied glands. It has been observed that lipase upon liberation from the pancreas in man increases in concentration more rapidly in the serum and remains elevated longer than the serum amylase.

At the present time it would appear that the two most practical tests for use by the veterinary practitioner in suspected pancreatic disease would be the serum lipase in inflammatory disease and the X-ray film test for subsequent fibrosis and atrophy.

C. E. CORNELIUS

### References

- 1Coffin, David L., and Thordal-Christensen, Aage: "The Clinical and Some Pathological Aspects of Pancreatic Disease in Dogs," *Vet. Med.*, Vol. XLVIII, No. 5, (May 1953).
- 2Jasper, D. E.: "A Simple Diagnostic Test for Pancreatic Enzyme Deficiency in Dogs," *North Am. Vet.*, Vol. 35, (July 1954), 523-525.
- 3Gates, F. L.: "A Method for Proteolytic Enzyme Titration," *Proc. Soc. Exper. Biol. & Med.*, 24 (1927), 936-937.
- 4Challis, T. W., Reid, L. Corsan, and Hinton, J. W.: "Study of Some Factors which Influence the Level of Serum Amylase in Dogs and Humans," *Gastroenterology*, 33 (1957), 818-822.

### National Veterinary Wholesalers Elect

The following officers were recently elected by the National Veterinary Wholesalers Association, Inc., for 1960-61: C. Guy Stephenson, president; Frank T. Alexander, vice-president; George McConnell (Oakland), secretary, and Jack Miller, treasurer. Representing the Western Region is Dr. H. C. Burns (Oakland).

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## Mendo-Lake VMA Holds Meeting



Left to right: R. L. Chandler, J. E. Lessin, Ken Humphreys, D. Q. Wasson, R. C. Boobar (president), J. R. Chandler, C. T. Robinson, D. L. Van Pelt, and Mitchell Lunstra. Member A. C. McChesney is not in picture.

Newest constituent association in the CVMA is the Mendo-Lake VMA, comprising the area in Mendocino and Lake Counties in northern California. Their first official meeting was held on October 6th.

Guest speaker at the initial gathering was

Kenneth Humphreys, CVMA executive secretary, who reports "100 per cent membership from the group in the state association."

According to Humphreys this small but live-wire group promises to make itself known in both local and state association affairs.



### ANALYSIS Proves It!

**Tranquin C-M** calms and quiets dogs quickly, effectively and dependably.

**Vetamine C-M** combats winter stress conditions often seen accompanying and following canine viral diseases.

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Veterinary Pharmaceuticals

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Lloyd M. Wright, Sonoma. Vouchers: E. R. Braun, W. E. Steinmetz.

William Matulich, San Luis Obispo. Vouchers: E. R. Braun, W. E. Steinmetz.

Andrew I. Moe, Modesto. Vouchers: E. R. Braun, W. E. Steinmetz.

Darrell D. Sharp, San Bernardino. Vouchers: Chas. K. Shane, C. A. Maeda.

Harold R. Baker, Pomona. Vouchers: Chas. H. Ozanian, E. R. Braun.

James R. Buell, Buellton. Vouchers: J. B. Carricaburu, David Gilhooly.

M. D. Moys, Los Angeles. Vouchers: Chas. H. Ozanian, W. M. Blackmore.

Frank R. Thorndike, San Francisco. Vouchers: E. R. Braun, W. E. Steinmetz.

Jack N. Sohrbeck, San Luis Obispo. Vouchers: Fred B. Pulling, J. R. Whitman.

Donald Keith Law, Alhambra. Vouchers: Henry G. Clute, Stuart E. Law

Dean C. Young, Petaluma. Vouchers: Charles E. Brandner, William M. Dungan.

### Army to Draft 50 Veterinarians

The U. S. Army plans to ask Selective Service to draft 50 veterinarians in January, 1961. It will be the first draft of veterinary officers since January, 1953. No draft calls for physicians or dentists are expected.

The Air Force advises that it is having no difficulty in filling its annual quota for veterinarians.

## Veterinarians Wanted

The Meat Inspection Division, USDA, offers employment opportunities in most sections of the United States. Entrance salary for the graduate veterinarian, regardless of experience, is \$6435 per annum, with an annual step increase of \$165 to the top of Grade GS-9, which is \$7260 per annum. Opportunities for promotion to Grade GS-11, salary range \$7560 to \$8860, are also available to veterinarians after completion of one year's service and demonstrated ability to assume more responsibility as such positions become vacant.

Civil Service benefits include 13 to 26 working days annual leave with pay (depending on length of service); 13 days sick leave per annum with unlimited accumulation of unused sick leave; group life insurance with double indemnity in case of accidental death; medical and compensation benefits for service connected illness or injury; disability retirement when medically justified; retirement on full annuity at age 60 with 30 years service; reduced optional retirement at age 55; also payment of death benefits and survivor annuity after completion of at least five years civilian service and at time of death, provided employee held position subject to the Retirement Act; also liberal hospitalization and medical coverage.

At the present time, there are vacant vet-

erinary meat inspector, GS-9, positions in Los Angeles; Portland; Billings, Montana; and Salt Lake City. In addition, there are many other stations throughout the United States that have need for veterinarians.

Your request for employment should be submitted on SF-57, Application for Federal Employment, which may be obtained at your Post Office, State Employment Office, or Civil Service Commission. Completed SF-57 or request for further information should be addressed to Dr. A. F. Eckert, Assistant Director, Meat Inspection Division, 779 Subway Terminal Bldg., 417 South Hill Street, Los Angeles 13, California, Telephone RICHmond 9-4711, Ext. 356.

## Death of Two S.F.V.C. Graduates

Dr. Cecil Moulton, retired, died from a heart attack on October 20 in Petaluma. Born in England 77 years ago, Dr. Moulton was educated in the United States, receiving his D.V.M. degree from San Francisco Veterinary College in 1917. He worked for many years for the State of California.

Dr. C. T. Litton passed away September 9. Death was attributed to cancer. Dr. Litton was a graduate of San Francisco Veterinary College, 1915. Until his death he owned and operated a small animal hospital in Inglewood.

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A. Professional services rendered, mistake, error, etc.
  3. Animals in Care, Custody and Control of Doctor and Employees.  
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  4. Products Liability.  
A. Goods or products, sold, handled, or distributed by insured.
  5. Contracted Liability.  
A. Lease agreement, etc.
- B. Loss to animals by fire, maximum \$1,000 per animal, \$25,000 aggregate.\*
6. Auto Non-Ownership Liability.  
A. Protects insured if employees use own car for business purposes.  
B. Automobile-hired, etc.
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A. Cover the insured for his personal act, and that of his family, services of part-time domestic employees, etc.
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### KENNETH HUMPHREYS

Executive Secretary  
CVMA  
3004 16th St., S. F. 3

## Infertility in Cattle\*

E. A. WOELFFER, D.V.M., Practitioner, Oconomowoc, Wisc.

During recent years much emphasis has been placed on the value of increasing breeding efficiency in beef and dairy cattle. In the past several months a number of articles have appeared in several farm magazines pointing

out the importance of periodic herd examinations. Just a few days ago one of the editors of a farm journal informed me he had traveled extensively in Tennessee and after talking with a number of farmers concluded that infertility

was their number one problem. Next in importance was mastitis.

We need to continue to educate our clients and re-emphasize the fact that good management and veterinary supervision are essential in maintaining high fertility. The problem of infertility is a practice opportunity that has not been developed to its fullest extent and possibly one of the reasons is that we are not as adequately trained or experienced as we should be.

Recently I talked to a member of the board of examiners in one of the midwestern states following an examination. He compared the graduates of three veterinary schools in connection with their practical knowledge of infertility. His conclusion was that the graduates of one school were suitably trained. Those from the other two were not. A considerable number of our large animal practitioners have been letting this phase of practice go unchallenged because of the type of practice, or because they are too busy or due to a lack of interest.

This is not meant as criticism. Rather it is my purpose to focus attention on a problem that needs consideration by more practitioners.

### Gain Proficiency

As an individual practitioner, if you are interested in fertility work but feel the lack of training or experience, make it a point to examine cows at every opportunity. Examine the reproductive organs while in the process of diagnosing other ailments, consistent with good judgment, of course. Make an effort to initiate or attend meetings, clinics and short courses on the subject, and by all means, learn to inseminate cows.

\*Presented at the CVMA Convention, San Francisco, June 27-29, 1960.

This kind of preparation is especially helpful to young men entering practice. In fact, six to twelve months' experience inseminating cows before or following graduation can prove invaluable to the young practitioner.

### Herd Survey

Let's assume we have been called to examine a problem herd about which we know nothing. How shall we proceed? In our practice we like to get acquainted with the owner or herdsman. Size him up as well as the general layout of the premises. His attitude, knowledge of the herd and its breeding health will be helpful in arriving at a herd diagnosis. In order to establish some kind of order in our over-all approach to the problem, let's consider briefly the following five categories to see how they fit in with our findings from careful individual examinations, namely (a) nutrition, (b) management, (c) hereditary factors, (d) disease and infection and (e) the role of the bull.

### Nutrition

The relationship of nutrition on infertility has not been adequately studied to draw accurate conclusions. However, in a general way, we can say that normal reproduction can be anticipated when animals have access to abundant pasture or properly cured roughages, particularly legumes, supplemented with reasonable amounts of concentrates and salt together with adequate supplies of iodine, trace minerals, and proper calcium-phosphorus balance.

Production is reduced and reproduction may be interfered with when poor quality roughages lacking in vitamins A and possibly E are fed over a prolonged period. There is evidence that a hypothyroidism and possibly hemoglobin deficiency may be detrimental to good fertility.

Recent studies have shown that the plane of nutrition for growing heifers has little effect on fertility except that it does influence the age at which they come in heat. Well fed heifers begin exhibiting heat at approximately nine months. Those on average feeding show heats at 12 months and those under-fed do not come in heat until the age of 17 months.

### Management

Common faults of herd management are failure to detect heats, breeding too soon after freshening, failure to keep accurate breeding records, failure to have pregnancy checks before marketing "open" cows and failure to call a veterinarian for early treatment of cows with known breeding difficulties.

A study of 19,000 cows in A. I. cooperatives revealed that in spite of frequent advice to wait at least 60 days after freshening, 21 per cent of the cows were bred before 60 days, and 37 per cent earlier than 70 days.

In a survey by Hofstead, 40 per cent of all cows bred less than 40 days after freshening had abortions, metritis, dystocia or retained fetal membranes. When the breeding dates were postponed at intervals of ten days, the percentage with breeding difficulties dropped to 33, 28 and 7 per cent respectively. Only 4 per cent of the cows bred 80 to 90 days after calving had any trouble. Other studies have verified these results. Some environments, old age and certain climatic conditions may to some extent influence fertility in both males and females.

### Inheritance

Investigators, and students of genetics, feel that inheritance influences fertility but there is disagreement as to the extent. There is little basis for the belief that high producing herds have more breeding trouble than low producers. However, too little information is available to draw definite conclusions. Certain lethal genetic factors that directly or indirectly influence reproduction have been reported mostly in imbed cattle. The underlying cause of cystic degeneration of the ovary (nymphomania) is still not clear. There is good evidence that inheritance may be the principal or contributing factor to this condition.

Livestock men have made great strides in improving their stock but through their zeal to improve production and type, they have failed to produce animals with such qualities as high resistance to disease, stable nervous

systems or endocrine systems with good functional balance. Research may some day prove that these factors are deterrents to good fertility.

### Disease—Infection

We know that brucellosis, the venereal diseases, leptospirosis and local infections seriously affect reproductive efficiency. Debilitating diseases, severe injury, etc., tend to influence heat periods and fertility in individual animals.

### The Bull

Consideration must always be given to a sire's contribution to the success or failure of the breeding program. Examinations of the bull and his role in breeding efficiency has, I am sure, been adequately and capably discussed in other sections of this meeting so further reference to the problem will not be made at this time.

### Individual Examinations

After the preliminary survey and having a general history of the herd in mind, we are now ready to make individual examinations. As the individual female is approached, a rapid almost automatic survey of the animal is made. This is particularly true in subjects that are in poorer condition or are over-conditioned compared with the balance of the herd. In these individuals it may be advisable to inquire about age, general health, stage of lactation, etc. Old age, a history of metabolic disease such as ketosis, a systemic infection, may be a principal or contributing factor in abnormal estrus or infertility of such an individual.

(Continued on page 30)

### GESTATION CHART

Length of Gestation	Shape Amniotic Vesicle—Fetus	Size	Fluid Volume	Diameter Uterine Artery
30-35 days	Like pea—round-firm slippery feel	¾"-⅞"	65-70 cc	
50 days	Oblong—soft (like butternut)	2"	200 cc	
90-100 days	Fetus	4"-7" (Small rat)	1 qt.	
5 months (150 days)	Fetus—Difficult to palpate	12"-16" (Large cat)	7 qts.	½"
6 months (180 days)	Fetus	20"-24" (Small dog)	7-8 qts.	½" size of pea
7-8 months	Palpate appendages	2'-3'	7-8 qts.	½"-1½" Strong pulsations

Note: Can palpate fetal membranes—35-100 days. Can palpate fetal membranes and cotyledons from 90-100 days to term.

## Infertility in Cattle

(Continued from page 29)

Special note should be taken of the external pelvic region and vulva, particularly if the latter is thickened, injured, tipped anteriorly or patent. A swollen, slightly reddened vulva may indicate infection. It also may denote estrus, cystic activity, partial prolapse of the vagina which may not be observed in the standing position, impending abortion, and, of course, approaching termination of normal gestation.

The tipped vulva, particularly one in which the lips remain partially separated, permits particles of feces to fall into the vagina. This can produce irritation and inflammation. As a consequence, some cows balloon their vaginas. These individuals often are difficult to settle without surgical correction.

If there is an abnormal discharge of the vulva, note the color, consistency and the amount and its relationship to calving or service. Cows in estrus that show cloudy discharges generally have a lower than normal conception rate. In your examination, attempt to determine the source of the discharge. These preliminary observations can usually be made in a matter of seconds. Often they are helpful in arriving at or confirming a diagnosis.

### Examination for Pregnancy

In making an examination, always palpate for pregnancy first. This is important, and regardless of any reports or records, do not carelessly manipulate the ovaries or uterus until it has been established definitely the cow is not with calf. A cow with a corpus luteum on either one or both ovaries may have been bred and in calf less than 30 days. In most cases, pregnancy can be determined in 30 to 40 days; in heifers a few days earlier.

When making herd examinations, it is advisable to record the findings of each examination. The records may provide valuable information for subsequent breedings and examinations. In our practice we use an 8x11 notebook. We leave a carbon copy of the examinations with the herdsman or owner. In a herd examination, we make all the individual examinations and then follow up with treatments.

### Which Cow to Examine?

To obtain a relatively complete herd picture, the following cows and heifers are examined:

1. Those bred 30 days or longer to determine pregnancy.
2. Those that have freshened 30 days or longer to determine the postpartum condition of the reproductive tract.
3. Those females that have freshened recently and have completely or partially re-

## TV Program Acquaints Public With Veterinary Profession

The CVMA established valuable public relations on Saturday, October 29, when Dr. George Eberhart, El Cerrito practitioner, appeared for 16 minutes on the popular Bay Region television program "Pet Life," over station KTVU.

With the assistance of Mrs. Eberhart, Dr. Eberhart demonstrated the method of handling an injured animal by a person on the scene of an accident; the urgency of phoning a veterinarian to prepare for the arrival of the injured pet, and steps taken by the practitioner, such as quick clinical examination for extent of injuries, tests for shock, and treatment.

Dr. Eberhart showed the lay public how oxygen was administered. He also had X-ray plates and blood plasma as props.

Billy Reynolds, the show's M.C., asked Dr. Eberhart about the seriousness of rabies. The veterinarian's reply stressed the importance of vaccination. He then gave a rabies shot to one of his own dogs he had brought to the program.

The program proved so popular that Dr. Eberhart was asked to appear again on November 19.

The Association is indebted to Dr. Eberhart for giving up two busy Saturday afternoons to promote veterinary medicine.

tained their fetal membranes or have abnormal discharges.

4. Those with abnormal heat periods or other irregular symptoms.

5. Individuals in heat, especially those that have been serviced three or more times.

Infusions, if indicated, can be made either before or following service. The stage of follicular development often can be determined and if ovulation stimulants are indicated they can best be given at this time.

If brucellosis, vibriosis, trichomoniasis, leptospirosis or other conditions are suspected, specific tests or studies are made or recommended. Return visits should be encouraged and scheduled. Large herds in relatively good health usually can be kept in good breeding condition when examinations are made on a monthly basis.

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**ANTIHISTAMINIC  
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Benylin Expectorant is a combination of approved medical agents which assist in liquefying and removing mucous secretions from the respiratory tract.

**USEFUL IN ALL COUGHS AND OTHER  
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**Benylin Expectorant is available in  
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Not recommended for use in animals  
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## A Memorandum of Understanding for Humane Organizations and Veterinarians

The American Veterinary Medical Association and humane organizations exist by right of public approval, legal authorization, and from necessity. Each has its appointed task in the field of animal welfare: the veterinarian diagnosing and prescribing for, treating, and conserving the life and well-being of animals; humane societies working for the protection, relief and comfort of animals from the humane standpoint. The veterinary profession and the humane organizations have much in common and at all times there should exist between them the closest cooperation.

As a basis of agreement, the following revised articles are advanced:

1. There should exist at all times the heartiest and most loyal cooperation between veterinarians and humane organizations.

2. Humane organizations should endeavor, in the building of their work, to avoid conflict with the development and professional activities of the veterinary profession.

3. Humane organizations should continue to emphasize the importance of the proper care and humane treatment of all animals; in localities where either the veterinary profession or humane organizations are unable to provide proper facilities, the stimulation of an exchange of counsel between the veterinarians and the humane organization in each community is desirable in an endeavor to work cooperatively for the better treatment, care, and condition of animals in that district.

4. In each community where there is a humane organization, there should be developed a joint council to which grievances on the part of either the veterinarian or the humane society may be referred for consideration and friendly adjustment.

5. Humane organizations should use their influence, through the advice of their officers and through their published literature, to urge the public to avail themselves of the services of qualified veterinarians in all matters requiring professional skill or knowledge and, as far as possible, the organizations should encourage and cooperate with state and national veterinary medical associations.

6. There should be incorporated into the curricula of the veterinary colleges correlated instruction in the humane care and treatment of animals, an exposition of the duties and responsibilities of humane societies in the enforcement of the law against cruelty to animals, and the importance of an early development of a close bond of fellowship between such organizations and the veterinary profession.

7. Existing humane organization veterinary facilities, under the supervision of qualified, licensed veterinarians, offer an exceptional opportunity for training and furthering the work of the veterinary profession. It should

be the policy of such an organization to offer its facilities to all licensed veterinarians on an equitable basis.

8. The widespread development of well-equipped private animal hospitals throughout the United States offers an exceptional opportunity for providing charitable veterinary services through mutual cooperation between the local veterinary associations and local humane organizations.

AVMA Council on Veterinary Service

### News...

### FROM OUR ADVERTISERS

A concentrated dosage form producing greater antigenicity is offered in the new "Biotized" mixed bacterins recently introduced by **Fort Dodge Laboratories**. The Biotizing process makes it practical to standardize the bacterial suspensions, so that labels may state "Each 2 cc. dose contains 15 billion microorganisms". This is said to be three times the number in a 5 cc. dose of regular bacterin.

\* \* \*

**Corn States Laboratories** reports that it now has available a new canine distemper vaccine named *Tempacine*, a modified live virus vaccine produced by serial passage of Snyder-Hill canine distemper virus in tissue culture. Because of the great purity of this vaccine, it can be given by any parenteral route, including the intravenous. Some veterinarians use *Tempacine* therapeutically by this route and report excellent results in curbing early distemper.

\* \* \*

Use of "Agrozyme" in all livestock fattening rations using low-moisture corn is now possible, **Merck Chemical Division**, Rahway, N. J., announced recently.

"Agrozyme" now may be incorporated into cattle and swine feed supplements nationwide by feed manufacturers. Research has shown the gain-stimulant is compatible with procaine penicillin, hormones, vitamin A, and minerals at recommended use levels. During its introductory period, "Agrozyme" was limited to non-medicated feedstuffs, but now it may be used on the same basis as vitamins and other feed ingredients.

\* \* \*

**The S. E. Massengill Company** has announced the advent of *Pet-Tabs, Jr.*, the new off-spring of *Pet-Tabs*, the tablet that supplies all the vitamins and minerals dogs and cats need to develop and maintain tip-top condition.



New  
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Distemper  
Immunization

# CYTOGEN®

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... the first and only modified live virus vaccine produced on canine tissue cells

\* To the recognized superiority of a modified live virus vaccine, CytoGen brings increased effectiveness where it counts most . . . the strength, quality and antigenicity of the virus itself. This means greater protection in more dogs.

Every package of  
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Package: 10-1 dose vials,  
with diluent

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## Dean Armistead Named Advisor to Air Force Veterinary Service

Dr. W. W. Armistead, dean of the College of Veterinary Medicine, Michigan State University, has been appointed as advisor to Major General Oliver K. Niess, Surgeon General of the U.S. Air Force on matters pertaining to the Air Force Veterinary Service.



DR. W. W. ARMISTEAD

& M College of Texas, and a past president of the AVMA. From 1950-56 he was editor of the *North American Veterinarian*. He received his D.V.M. degree from A & M College of Texas in 1938; the M.S. degree from Ohio State in 1950, and the Ph.D. degree from the University of Minnesota in 1955.

### Third Annual Meeting American College of Veterinary Toxicologists Held

The third annual meeting of the American College of Veterinary Toxicologists was held August 14 in Denver with more than 60 members and visitors attending.

Officers elected for the next two-year term were: Dr. H. E. Ferguson president; Dr. R. D. Radeleff, vice-president; Dr. W. F. Harris, secretary-treasurer. The next general session will be held March 20, 1961, in St. Louis, in conjunction with the meeting of American Chemical Society Symposium on Pesticides.

### How to Promote Better Understanding

Have I had lunch with a Colleague this month?  
Have I telephoned a Colleague this week?

### Attention—CVMA Members!

Recently a flood of material has been mailed CVMA members regarding the

#### "SILENT PARTNER" Health and Accident Insurance Plan.

Please Note: This Plan has not been approved by the California Veterinary Medical Association.

## Attention—Winter Sports Enthusiasts



TIME: February 12-17, 1961.

PLACE: Mammoth Lakes, California.

Attend an educational conference in conjunction with a family winter vacation.

Second Annual Sierra Veterinary Medical Association Meeting, February 12 to 17, 1961, at Mammoth Mountain Inn, Mammoth Lakes, California, one of United States' most outstanding winter resorts.

#### SUNDAY, February 12, 1961

8:00 p.m.—Cocktail and get-acquainted hour.

#### MONDAY, February 13, 1961

9:00 a.m.-2:00 p.m.—Skiing.

4:00 p.m.—Business meeting and registration.

5:00 p.m.—"The Relationship of the Veterinarian and Pet Shop Owner," by Joseph W. Wayne, D.V.M., Practitioner, Hawthorne.

#### TUESDAY, February 14, 1961

9:00 a.m.-2:00 p.m.—Skiing.

4:00 p.m.—"Dermatology in Veterinary Medicine," by Ivan A. Peterson, D.V.M., Practitioner, Pasadena.

#### WEDNESDAY, February 15, 1961

9:00 a.m.-2:00 p.m.—Skiing.

4:00 p.m.—"Treatment of Uremia," by M. A. Custer, D.V.M., Practitioner, La Jolla.

#### THURSDAY, February 16, 1961

9:00 a.m.-2:00 p.m.—Skiing.

4:00 p.m.—"Feline Practice," Robert L. Stansbury, D.V.M., Practitioner, Pasadena.

7:00 p.m.—"Farewell Banquet."

#### FRIDAY, February 17, 1961

9:00 a.m.-2:00 p.m.—Skiing.

Entertainment for the whole family with baby sitting available!

Learn-to-Ski week with excellent snow conditions—ice skating, ice show, dancing, ski movies, etc. (Ski equipment rentals available.)

Reservations should be made immediately by writing Mammoth Mountain Inn, Mammoth Lakes, Calif., or Mammoth Mountain Inn, 8907 Wilshire Blvd., Room 204, Beverly Hills, Calif. Phone OL 5-6574. Deadline January 2, 1961.



## Lang's Clinical Formulae

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California veterinarians feed and recommend more Kal Kan products than any other.

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## Dr. A. M. McCapes Heads Boosters

Dr. A. M. McCapes, CVMA president 1955-56, and long active in Association affairs, was recently elected president of the Mustang



A. M. McCAPES

Boosters Club of San Luis Obispo. The group promotes the athletic program of Cal Poly. Dr. McCapes, who has supported the school's activities for many years, urged members of the Boosters Club to double their roster for the coming year.

**Editor's Note:** We are happy to observe that members of our profession are increasingly joining and becoming active in service clubs, P.T.A. groups; are serving on city councils, school boards, water districts, and entering local, county and state politics. This alliance with the public is bound to benefit the veterinary profession.

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### Veterinarians Assigned to "Project Mercury"

Twenty-one Army and Air Force veterinary officers have been assigned to animal recovery operations of "Project Mercury," according to *Army Navy Air Force Journal* (Sept. 10, 1960).

They will aid in the training and other support necessary to put monkeys and a chimpanzee into space prior to the launching of the first astronaut in the Mercury capsule.

The only California-stationed officer in the group is Army Major Bruce S. Ott, Letterman General Hospital, San Francisco.

---

### Colonel Daniel B. Leininger

Col. Daniel B. Leininger, 80, passed away on October 8 at Letterman General Hospital, San Francisco. He retired in June, 1943, at Fort Ord. Col. Leininger had served as a cavalry veterinarian until the veterinarians were commissioned in 1916. He was a long-time member of the AVMA.

## LOCAL ASSOCIATION NEWS

### Southern California VMA

The fifth annual SCVMA golf tournament held at Los Coyotes Country Club was won by Dr. William J. Zontine, with a well played net of 64. Dr. J. F. Cittadin finished second and Dr. Rollin Smith was third. Dr. Jack Saunders scored the best gross round with an 82.

One of the year's highlights in southern California was the outstanding Silver Collar Luncheon of the Women's Auxiliary, held October 20 in the Beverly Hills Hotel. The affair aided the Guide Dogs for the Blind, Inc., at San Rafael, and was a marked success.

\* \* \*

### Bay Counties VMA

Ladies Night and Installation of Officers will be held at the Elk's Club, San Mateo, Thursday evening, December 15. Cocktails are scheduled for 7 p.m., with dinner at 8 o'clock. There will be dancing until midnight, surprise entertainment and door prizes. Dr. Tom D. Harris, Jr., will install officers for 1961. All veterinarians and their wives are invited. Write Herb Warren, 3004 16th Street, for reservations.

\* \* \*

### Alameda-Contra Costa VMA

"Financial Planning in Veterinary Medicine" was the interesting topic of discussion at the October 26th meeting of the Alameda-Contra Costa VMA.

\* \* \*

### Humboldt-Del Norte Counties VMA

Dr. Mike Lunstra, secretary, Humboldt-Del Norte Counties VMA, presented the association's Best Cowgirl Trophy to Miss Sandra Smith of Eureka at the Pegasus Patrol Junior Rodeo, held on May 22. The association plans to sponsor this award annually in the interest of local public relations.

\* \* \*

### Mid-Coast VMA

At the regular meeting of the Mid-Coast VMA in October the following officers were elected for the coming year: Dr. John Carricabura, president; Dr. John McMurray, vice-president, and Dr. William Matulich, secretary-treasurer.

## CVMA Committees

### Executive Committee

Chairman, E. R. Braun, P.O. Box 21, Hanford.  
Ernest H. Houchin, 40 West Santa Clara St., Ventura.  
Ralph L. Collinson, 1550 McHenry Ave., Modesto.  
W. W. Putney, 6536 Langdon, Van Nuys.  
William E. Steinmetz, 4227 Freeport, Sacramento.  
Irving M. Roberts, 9884 MacArthur Blvd., Oakland.  
Charles H. Ozanian, 10326 E. Artesia, Bellflower.

### Program Committee

Chairman, W. W. Putney, 6536 Langdon, Van Nuys.  
Co-ordinator, Willard D. Ommert, P.O. Box 2158,  
Hollydale Station, South Gate.  
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Public Service, Robert J. Schroeder, 9738 Tecum Rd.,  
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F. P. Sattler, 2005 W. Commonwealth Ave., Fullerton.  
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## *Profile* . . . LEO OTTO HENRICH, D.V.M.

*The fire is banked but the coals still glow  
brightly . . .*



LEO OTTO HENRICH

The impression one gets when visiting with Dr. Leo Henrich of Tulare is that he has looked at a lot of life. Not just ordinary living either, but the kind that goes with practicing veterinary medicine over a period of forty-five years in California. Here is a man who, day in and day out, lived, ate and breathed Veterinary Medicine. One who worked for the good of the profession at the practitioners' and association level and who served well whenever and wherever asked . . . (and sometimes even when not asked) . . . for this is a man of straightforward opinions and actions. His active span of practicing years has come to a close, due to a heart attack in 1957, but his keen interest in the field remains. Since much of his lifetime of practice closely parallels organized veterinary medicine in this state, let us briefly scan some of the highlights of Leo's career.

The beginning for Leo Otto Henrich was August 22, 1890 in the little town of Madison in Yolo County, California. His father had attended one of the early veterinary schools in Germany (Kreutznach, on the Rhine River) but did not obtain a license to practice in this country. In 1850, Leo's father owned and operated a pork packing plant in Madison which earned him the title of "the Duke of Madison." He was a horse racing enthusiast and owned several standardbred race horses. When Leo was three years old, his family moved to Vacaville. His father became the owner and operator of the first hotel in Vacaville, called the Vaca Valley Hotel. This structure has since been destroyed and Vacaville's public library is now located on or about the site of the old Henrich family hotel.

Young Leo attended grammar and high

school in Vacaville and graduated in 1908 from its high school. He was a cornet player and music director of the Vacaville band. This band played over the northern California area from Sacramento to Redding. During this time, Leo had the interesting experience of going to San Francisco (in 1906) during the earthquake disaster as a bugler of Company I of the National Guard. At the time, San Francisco was under martial law because of looting within the city. After high school graduation, Leo stayed with music (even joined the Musician's Union) until his decision was made to become a veterinarian.

With much enthusiasm, Leo enrolled at the SFVC in 1910. Three years later, he graduated second highest in his class of 24 students. He remarked recently that he now knows of only six surviving classmates. A picture of this class was published in 1959 in *THE CALIFORNIA VETERINARIAN*, marking its graduation year as 1914, but Leo claims that 1913 is the correct date. In veterinary school, he was a member of the Lamdda Nu fraternity (and he chuckles as he tells you that you've probably never heard of it!).

After graduation, Leo established a general veterinary practice in Vacaville, where he took care of his widowed mother. He practiced there for four years. In 1914, Leo was directing the band (yes, he kept up with his music) at an evening-in-the-park concert in Fairfield. After the concert, as Leo put aside his baton, an acquaintance approached to introduce him to a friend, Miss Emma Martz. As Leo so aptly puts it, "we've been connected ever since." They were married during the Panama Pacific International Exposition in 1915. Their first son, Jean, was born the following year.

In 1917, Dr. Henrich and family moved to Corcoran in Kings County and immediately became active both in practice and in community affairs. Whether in the fierce summer sun of the valley or in the murky gloom of its foggy winters, veterinary practice was a rugged life and here was a rugged man who rose to meet its everyday challenges. On the side, he helped to organize the Corcoran Fire Department and served as its first president. He served on the City Council for five years. He also served as Health Officer during the great influenza epidemic of 1918 and helped convert the high school into a temporary hospital.

Some of his early triumphs occurred while in practice at Corcoran. He remembers distinctly the first bottle of calcium chloride solution he made up with which to treat a parturient paresis case. Eight ounces were trickled very slowly into the vein and the cow recovered. Before that time, he had been one of

the first in California to use oxygen infusion in the udder for treatment of this condition. Later, when calcium gluconate solutions came into vogue with the profession, Dr. Henrich made up his own solutions. In fact, almost until the time of his retirement, he continued to make up many of the parenteral solutions used in a general practice. His diagnosis of osteomalacia in calves in 1919 was one of the first diagnoses of this condition in the country. The condition took place among calves located on what is today known as the Verboon Ranch near Corcoran. Leo resorted to cod liver oil as treatment supplemented with calcium (obtained as a calcium salt from a nearby sugar factory) which was crushed and scattered over the fields where the calves grazed. The condition subsided.

Leo also received recognition, with Dr. A. C. Rosenberger, of his work with investigating what later proved to be a vitamin A deficiency in range cattle. These cattle were on hog wallow dry land with no green feed at all. Alfalfa hay was hauled to the cattle, at the insistence of Drs. Henrich and Rosenberger, with considerable improvement being noted in the affected animals within a three-week period. One other disease entity, called by Dr. Karl Meyer (who was working with the problem at the time) "Borna Disease" was also investigated by Leo at the practicing veterinarian's level. Over 300 head of horses in his area were involved in almost every conceivable stage of encephalomyelitis (unknown as to etiology at the time).

Leo was smack in the middle of the break and he remembers this harrowing experience very well indeed, recalling, "we used just about everything in our drug armamentarium to save those horses . . . and a few things that weren't." Dr. Meyer also supplied some assistance during this outbreak. Subsequent research by Meyer and Haring proved the disease to be encephalomyelitis, much of the field research being performed in the Crocker Hoffman estate at Merced and Corcoran areas. In 1934, after 17 years of practice in Corcoran, Dr. Henrich moved to Tulare in Tulare County. His family now included Vernon, a second son who had been born in 1927.

During most of Leo's active practicing years, he was equally active in his professional associations. He joined both the AVMA and the CVMA in 1914. He became the state association president just 15 years after joining. He recalls that he took office in 1929 during a Los Angeles meeting. He was a member of the committee which wrote and helped pass a revised Veterinary Practice Act. He was also a member of the committee which wrote the amended CVMA By-Laws before the state association became affiliated with the AVMA and adopted the national organization's Constitution and By-Laws. He was the first CVMA member to propose the office of permanent Executive Secretary for our state association. This, of course, was eventually recognized as

a true necessity for the up and coming state group, and Mr. Charles Travers took over the office at this time.

Leo Henrich served on the Board of Veterinary Examiners from 1936 to 1940, appointed to that position by Governor Merriam. All four years, he served as the board's president, with Dr. Nelson Clemens serving as secretary. In the words of one who knew him well during this time, "he was always fighting for the good of the veterinarian" and another put it this way: "he was one of the wagon wheels who kept things rolling!"

During Leo's tenure in office with the Board of Veterinary Examiners, the system of secret identity of veterinary applicants for state licenses was inaugurated with examination papers being identified with a number rather than a name. This system helped to eliminate bias or prejudice from the process of selecting veterinary licentiates in the state. Before this system, prejudice had a free rein in the selection of licensed veterinarians.

Esteem for Dr. Leo Otto Henrich may be reflected in the Life Memberships conferred upon him by the AVMA, CVMA, Central Valley VMA and Tulare County VMA. Incidentally, Leo helped form the latter organization and served as its first president. Not one of these organizations could call Leo Henrich just a "card-carrying" or "knife and fork" member. When he joined an organization, he worked!

Yes, Dr. Leo Henrich has a rich past to look back upon. He is one whose vast experience has straddled the gap of the horse and buggy days to this new jet age. Just making the transition through this turbulent period of time in a profession such as ours is no small feat . . . not if one keeps up with changes in practice. The value of the individual practitioner has always been the key to professional standing of veterinarians as a group. When a practitioner, like Leo, took time to be interested in his association groups, he made with others some of the most important contributions to the advancement of veterinary medicine in this state. Leo Henrich, and others like him have helped to make the California Veterinary Medical Association what it is today; the largest and (we think) the finest organization of its kind in the world.

R. B. BARSALEAU, D.V.M.

#### Dr. Kendrick to New Post

Dr. John W. Kendrick, Cornell, '49, has been named chairman of the Department of Medicine, Surgery and Clinics at the School of Veterinary Medicine, University of California at Davis.

Dr. Kendrick was co-chairman of the 1959 Midwinter Conference, moderator of the closed circuit television program at the 1960 meeting, and is a member of the Program Committee and TV moderator for the 1961 Midwinter Conference.

## OPPORTUNITIES

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Animal hospital for lease with option to buy. Reply to: Bolton Animal Hospital, 2005 Yale Blvd., S.E., Albuquerque, New Mexico.

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### Wanted to Lease

Interested in leasing small animal practice in northern California. Would also consider lease with option to buy. Write Box A-113, THE CALIFORNIA VETERINARIAN.

\* \* \*

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Portable electric autoclave, dimensions 12" x 12", liquid capacity 25 qts. A.C. voltage. Automatic. Cost \$124. Sell for \$60. Perfect condition. Dr. N. Miner, 2071 North Lake Ave., Altadena.

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### Dr. Stocking Named Veterinarian Of Year by Southern Calif. VMA

Dr. R. A. Stocking, small animal practitioner of Los Angeles, has been named Southern California Veterinarian of the Year. The honor was accorded Dr. Stocking recently by Southern California VMA.

Mr. Frank Pellerier, a member of the selection committee composed of outstanding civic and community leaders of Los Angeles County, presented a special plaque to Dr. Stocking.

R. A. STOCKING

A graduate of Texas A. and M., Dr. Stocking received the SCVMA's highest honor for his contributions to his profession and community.

## OUT-OF-STATE NEWS

### Washington State VMA

Dr. Robert Burch, Seattle, has been elected president of the Washington State VMA at the 45th annual meeting of the association recently held in Seattle. Dr. Howard DuBois, Burlington, is president-elect, and Mr. Robert M. Ford continues as executive secretary.

\* \* \*

### Hawaii VMA

Recently elected at the annual meeting of the Hawaii VMA were: Dr. N. Y. Chung, president; Dr. Allen Miyahara, vice-president, and Dr. K. S. Ishimoto, secretary-treasurer.

\* \* \*

### Nevada State VA

The annual winter meeting of the Nevada State Veterinary Association will be held on January 23-24, 1961, at the Stardust Hotel, Las Vegas.

possibility for permanent associate or partnership. State remuneration desired and qualifications. Write Box A-112, THE CALIFORNIA VETERINARIAN.

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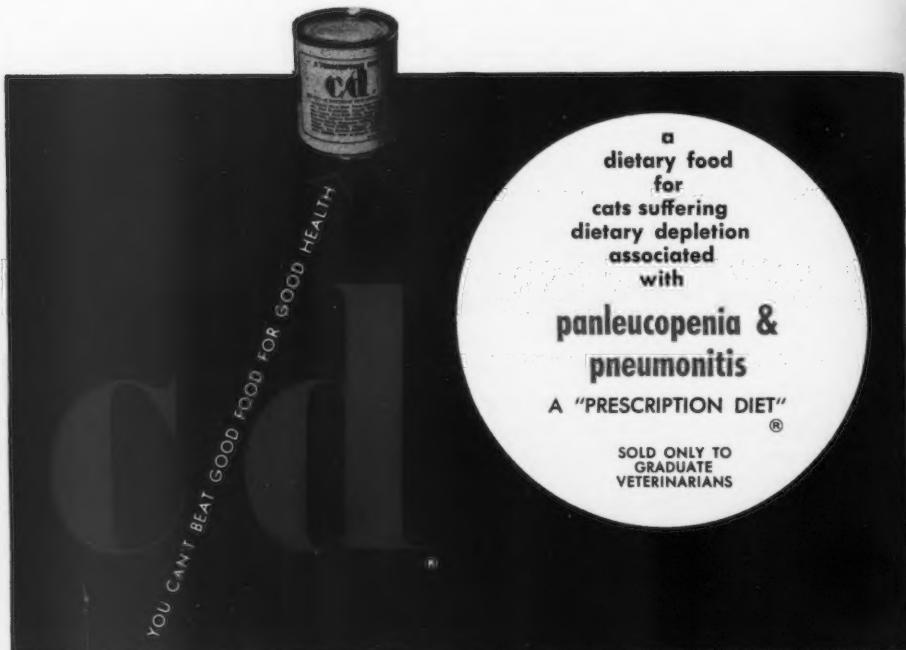
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**REFERENCES:** 1. Roe, C. K.: Enteric Infections in Weaned Pigs. Paper presented at the Second Regional Conference on the Nitrofurans in Veterinary Medicine, Madison, Wisconsin, May 28, 1959, p. 10. 2. Hughes, D. L., and McMinn, Jr., C. S.: Furacin—A Control for Gray Droppings. Am. Fur Breeder 32:24 (Aug.) 1959. 3. Palarski, J. D.: Furacin Treatment of Gray Diarrhea in Mink. J. Am. Vet. M. Ass. 136:177 (Feb. 15) 1960. 4. Johnson, C. A.: Studies on the Efficacy of Soluble Furacin Against Cecal Coccidiosis. Abstracts of papers presented at the 45th Annual Meeting of the Poultry Science Association, Raleigh, N. C., Aug. 7-10, 1956, p. 21. 5. Shumard, R. F.: The Activity of Soluble Furacin Against the Coccidian, *Eimeria necatrix*. Paper presented at the First National Symposium on Nitrofurans in Agriculture, Michigan State University, East Lansing, Michigan, Sept. 28-29, 1956.

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